JOURNAL OF MOLECULAR STRUCTURE, VOLUME 222 (1990)

AUTHOR INDEX

Alikhani, M.E., 185
Almond, M.J., 219
Amato, M.E., 487
Anachkova, E., 319
Ando, I., 275
Andrews, L., 95
Angell, R.M., 109
Appendino, G., 437
Arshinova, R.P., 401
Ault, B.S., 1

Bandoli, G., 487
Baran, J., 305
Bock, Ch.W., 415
Böhling, R., 171

Chandrasekhar, T.M., 209
Chiari, G., 437
Collins, S., 235
Creuzburg, M., 127

Djedaïni, F., 487
Dolmella, A., 487
Du, X.-M., 479

Egawa, T., 453
Ewbank, J.D., 503

Florido Navio, P., 387
Forsyth, G.A., 467

Giermanska, J., 285
Gödderz, K.H., 253
Graham, J.T., 109
Graindourze., M., 345
Grassi, A., 487
Greenwald, I.I., 11

Hope, E.G., 109
Hormes, J., 253
Huang, W.-Y., 479

Irsch, G., 265

Jenkins, C.E., 219
Jenkins, D.M., 109
Johnson, G., 235

Kafafi, Z.H., 245
Kanters, J.A., 305
Khaduillin, R.Sh., 401
Klein, A., 253
Konaka, S., 453, 503
Kowala, W.W., 285
Krasnoshchiokov, S.V., 415

Lagier, H.D., 253
Langen, J., 171
Levason, W., 109
Lokshin, B.V., 11
Lutz, E.T.G., 305

Maes, G., 345
Maier, M., 33
Mak, T.C.W., 479
Manceron, L., 185
Maury, C., 329
McCluskey, M., 95
McDiarmid, R., 415
Mielke, Z., 95
Molina Molina, J., 387
Moran, W., 235

Nelander, B., 121
Nikolova, B., 337

Ogden, J.S., 109

Pacansky, J., 33
Panchenko, Yu.N., 415
Pappalardo, G.C., 487
Patyk, A., 21
Pellow, R., 209
Perchard, J.-P., 141, 185
Petrissans, J., 329
Plyamovatyi, A.Kh., 401
Pong, R.G.S., 245
Postmyr, L., 431
Pupyshev, V.I., 415

Rademacher, P., 265
Rankin, D.W.H., 467
Rest, A.J., 87
Rice, D.A., 219

Sander, W.W., 21
Savel'ev, V.A., 365
Schäfer, L., 503
Schouten, A., 305
Schriver, A., 141
Schriver, L., 141
Schurath, U., 171
Schwentner, N., 151
Shirk, J.S., 245
Siam, K., 503
Silvi, B., 185
Smets, J., 345
Sokolov, N.D., 365
Spicer, M.D., 77
Stoev, M., 319
Stølevik, R., 431
Sugino, M., 453
Szczepanski, J., 209
Szostak, M.M., 285

Takayama, T., 275
Takeuchi, H., 453,503

Ugliengo, P., 437

Vala, M., 209
Van der Maas, J.H., 305
Van Zee, R.J., 201
Vener, M.V., 365
Viterbo, D., 437

Weltner, Jr., W., 201
Wierzejewska-Hnat, M., 305
Withnall, R., 95
Wittl, F., 127

Yang, B.-H., 479
Yates, C.A., 219
Young, N.A., 77
Zeegers-Huyskens, Th., 345
Zlateva, I., 319

JOURNAL OF MOLECULAR STRUCTURE, VOLUME 222 (1990)

SUBJECT INDEX

Acetaldehyde,
Vibrational force constants for acetaldehyde, 337
Adamantanol,
Polarized FTIR spectra and low temperature structure of adamantanol derivatives. Part I. 2-(2,4,6-Trimethylphenyl)-adamantan-2-ol, 305
Aggregation states,
Raman matrix isolation spectroscopy of hydrogen trapped in rare gases: from monomer to high aggregation states, 185
Alkoxytetrahydropyrans,
Conformational analysis and study of anomeric effect on 2-alkoxytetrahydropyrans by molecular mechanics (MM2) and theoretical ^3JHH calculation, 387
Amide linkage,
Electronic structure and conformational properties of the amide linkage. Part 8. ^{13}C NMR spectroscopic study of some cyclic ureas and thioureas: correlation of chemical shifts with quantum chemical data, 265
m-Aminophenol,
Spectroscopic evidence of hydrogen bonding and intramolecular charge transfer cooperation in polar *m*-aminophenol crystal, 285

t-Butyl methyl ether,
Molecular orbital constrained electron diffraction study of t-butyl methyl ether and t-butylamine, 503
t-Butylamine,
Molecular orbital constrained electron diffraction study of t-butyl methyl ether and t-butylamine, 503

Cadmium telluride,
Chemical vapour deposition: a matrix isolation study of precursor compounds and reaction intermediates in the formation of cadmium telluride and gallium nitride, 219
Carbenes, in matrices,
Carbenes in matrices: reactions and rearrangements, 21
Carboxylic acids,
Structural analysis of functional derivatives of carboxylic acids. Part I. Halogenates of acetylhalogen (in French), 329
N-Carboxymethyl-*N*,*N*-diethylethanaminium chloride dihydrate,
Crystal structure of *N*-carboxymethyl-*N*,*N*-diethylethanaminium chloride dihydrate, $[(C_2H_5)_3NCH_2COOH]Cl\cdot 2H_2O$, 479
$CdCl_2$–H_2O–CH_3OH,
Raman scatterring in $CdCl_2$–H_2O–CH_3OH saturated solutions, 319
Conjugated hydrocarbons,
Transferability of quantum mechanical force field scale factors between conjugated hydrocarbons, 415
Cyclic C_5^+ cluster,
Infrared spectrum of the ionic cyclid C_5^+ clusters in an argon matrix, 209

Di-t-butyldichlorosilane,
Determination of the gas-phase molecular structures of di-t-butyldichlorosilane and di-t-butylchlorosilane by electron diffraction and molecular mechanics calculations, 467
Dimethylpentane,
Molecular structure and conformation of 2,4-dimethylpentane studied by gas electron diffraction combined with vibrational spectroscopy and ab initio calculation, 453

Epoxygermacranes,
Conformational study of shiromodiol and related epoxygermacranes: X-ray, molecular mechanics and NMR analyses, 437

Excimer,
Matrix isolation study of excimer laser-induced photooxidation processes, 1

Gallium nitride,
Chemical vapour desposition: a matrix isolation study of precursor compounds and reaction intermediates in the formation of cadmium telluride and gallium nitride, 219

Halogenates,
Structural analysis of functional derivatives of carboxylic acids. Part I. Halogenates of acetylhalogen (in French), 329
HI as proton donor,
Infrared photochemistry of weak and medium strength hydrogen-bonded complexes, involving HI as proton donor, trapped in inert matrices, 141
High energy electron beams,
Irradiation of small molecules isolated in rare gas matrices by high energy electron beams, 33
Hydrogen,
Raman matrix isolation spectroscopy of hydrogen trapped in rare gases: from monomer to high aggregation states, 185
Hydrogen centers,
Hydrogen centers in solid noble gases, 127
Hydrogen-bonded complexes,
Infrared photochemistry of weak and medium strength hydrogen-bonded complexes, involving HI as proton donor, trapped in inert matrices, 141

In situ FTIR and EXAFS study,
The first combined in situ FTIR and EXAFS study of a matrix isolated molecule, 77
Infra dig matrix media,
Infra dig matrix media, 87

Li (H_2O) in solid argon,
IR laser induced photo-orientation of Li (H_2O) in solid argon, 245

Magnetooptical measurements,
Magnetooptical measurements on matrix-isolated xenon in the VUV with synchrotron radiation, 253
Methylpropenal,
Internal rotation in halogen derivatives XHC=c(CH_3) CYO of 2-methylpropenal obtained by molecular mechanics calculations, 431
Molecular mechanics,
Conformational analysis and study of anomeric effect on 2-alkoxytetrahydropyrans by molecular mechanics (MM2) and theoretical ^3JHH calculation, 387
Determination of the gas-phase molecular structures of di-t-butyldichlorosilane and di-t-butylchlorosilane by electron diffraction and molecular mechanics calculations, 467
Internal rotation in halogen derivatives XHC=C(CH_3)CYO of 2-methylpropenal obtained by molecular mechanics calculations, 431
Rotation around(Y)C_{sp^2} -X bonds (X=C, Q; Y=C_{sp^2}, Q) within the framework of the molecular mechanics method, 401

Noble gases,
Hydrogen centers in solid noble gases, 127
Nootropic agents,
Conformation of the nootropic agents 1-(4-methoxybenzoyl)-5-oxo-2-pyrrolidinepropanoic acid (CI-933) and 4-hydroxymethyl 1-benzyl-pyrrolidin-2-one (WEB-1868): X-ray crystal structures, theoretical MO calculations (AM-1) and 600 MHZ, 487

O_3 molecules,
Matrix reactions of P_4 and P_2 with O_3 molecules, 95
Organometallic compounds,
Spectroscopy of unstable complexes of organometallic compounds with small molecules at low temperatures, 11

P_4 and P_2
Matrix reactions, of P_4 and P_2 with O_3 molecules, 95
Pentachlorides,
The shapes of pentachlorides in low-temperature matrices, 109

Photochemistry,
The photochemistry of $(\mu_3\text{-}\eta_2\text{-}CH_3CH_2C{\equiv}CCH_2CH_3)\text{-}(\mu\text{-}CO)Os_3(CO)_9$ and $(\mu\text{-}H)(\mu_3\text{-}\eta_3\text{-}CH_3CH_2C{=}C{=}C(H)\ CH_3)Os_3(CO)_9$ in rare-gas matrices at 10 K, 235
Photodissociation,
Photodissociation of small molecules and generation of laser radiation in rare-gas crystals, 151
Photooxidation processes,
Matrix isolation study of excimer laser-induced photooxidation processes, 1
Polysilanes,
Conformation of polysilanes in the solid strate as studied by variable-temperature ^{29}Si CP/MAS NMR. Part I. Poly(methylphenylsilane), 275

Rare gas matrices,
Irradiation of small molecules isolated in rare gas matrices by high energy electron beams, 33

Shiromodiol,
Conformational study of shiromodiol and related epoxygermacranes: X-ray, molecular mechanics and NMR analyses, 437
Small molecules,
Irradiation of small molecules isolated in rare gas matrices by high energy electron beams, 33
Photodissociation of small molecules and generation of laser radiation in rare-gas crystals, 151
Spectroscopy of unstable complexes of organometallic compounds with small molecules at low temperatures, 11
Strong hydrogen bond dynamics,
Tentative study of strong hydrogen bond dynamics. Part II. Vibrational frequency considerations, 365

2-(2,4,6-Trimethylphenyl)adamantan-2-ol,
Polarized FTIR spectra and low temperature structure of adamantanol derivatives. Part I. 2-(2,4,6-Trimethylphenyl)adamantan-2-ol, 305

Unstable complexes,
Spectroscopy of unanometallic compounds with small molecules at low temperatures, 11
Uracil derivatives,
Fourier transform-infrared spectroscopic study of uracil derivatives and their hydrogen bonded complexes with proton donors. Part I. Monomer infrared absorptions of uracil and some methylated uracils in argon matrices, 345
Ureas and thioureas,
Electronic structure and conformational properties of the amid linkage. Part 8. ^{13}C NMR spectroscopic study of some cyclic ureas and thioureas: correlation of chemical shifts with quantum chemical data, 265

Water complexes,
Matrix isolation studies of water complexes, 121

Xe_nCl exciplexes,
Ne matrix hosting Xe_nCl exciplexes: Comparison with Ar and Xe hosts, 171
Xenon,
Magnetoopical measurements on matrix-isolated xenon in the VUV with synchrotron radiation, 253